

II. Claims

This version and listing of the claims replaces all prior versions and listings of the claims.

1. (currently amended) A bone mineral density evaluation system for evaluating a bone mineral density from an X-ray picture of a mandible, said X-ray picture containing a picture of a specimen disposed beside ~~a picture of~~ said mandible, said system comprising:

detecting means for detecting a gradation of a particular portion of said picture of said specimen;

correcting means for correcting the gradation of said X-ray picture so as to make the result of detection by said detecting means comply with a standard value; and

evaluating means for evaluating the bone mineral density on the basis of the corrected gradation of said X-ray picture as corrected by said correcting means;

wherein:

said evaluating means makes evaluation on the basis of the corrected gradation of a particular region of said mandible in said X-ray picture; and

said particular region includes a region corresponding to an alveolar bone portion around a first premolar.

2-5. (canceled)

6. (previously presented) The bone mineral density evaluation system according to Claim 1, further comprising setting means for setting said standard value.

7. (currently amended) The bone mineral density evaluation system according to Claim 1 [[6]] wherein said standard value is set based on a result of detection by said detecting means of a particular X-ray picture.

8. (previously presented) The bone mineral density evaluation system according to Claim 1 wherein said evaluating means includes display means for displaying said corrected gradation in the form of histogram.

9. (previously presented) The bone mineral density evaluation system according to Claim 1 wherein said evaluating means includes judging means for judging said bone mineral density on the basis of said corrected gradation.

10. (previously presented) The bone mineral density evaluation system according to Claim 1, further comprising output means for providing together a plurality of evaluation results provided by said evaluation means for respective ones of a plurality of X-ray pictures.

11. (canceled)

12. (currently amended) A bone mineral density evaluation system for evaluating a bone mineral density from an X-ray picture of a mandible, said X-ray picture containing a picture of a specimen disposed beside ~~a picture of~~ said mandible, said system comprising:

detecting means for detecting a gradation of said picture of said specimen;

correcting means for correcting the gradation of said X-ray picture so as to make the result of detection by said detecting means comply with a standard value; and

evaluating means for evaluating the bone mineral density on the basis of the corrected gradation of said X-ray picture as corrected by said correcting means,

wherein said evaluating means makes evaluation on the basis of the corrected gradation of a particular region of said mandible in said X-ray picture,

wherein said particular region includes a region corresponding to an alveolar bone portion around a first premolar, and

wherein:

the gradation of said picture of said specimen differs from portion to portion thereof; and

said detecting means detects one or both of average and deviation of the gradation of said picture of said specimen.

13. (previously presented) The bone mineral density evaluation system according to Claim 12, further comprising setting means for setting said standard value.

14. (currently amended) The bone mineral density evaluation system according to Claim ~~13~~ 12 wherein said standard value is set based on a result of detection by said detecting means of a particular X-ray picture.

15. (currently amended) The bone mineral density evaluation system according to Claim ~~13~~ 12 wherein said evaluating means includes display means for displaying said corrected gradation in the form of histogram.

16. (currently amended) The bone mineral density evaluation system according to Claim ~~13~~ 12 wherein said evaluating means includes judging means for judging said bone mineral density on the basis of said corrected gradation.

17. (currently amended) The bone mineral density evaluation system according to Claim ~~13~~ 12, further comprising output means for providing together a plurality of evaluation results provided by said evaluation means for respective ones of a plurality of X-ray pictures.